directly exposing said conductive material to a plasma to reduce
the ability of the conductive material to associate with oxygen prior to forming another
conductive material on the conductive material.

Please add new claims 76-88 as follows:

Suba

providing a tungsten nitride layer;

providing a polysilicon layer on the tungsten nitride layer; and directly exposing the tungsten nitride layer to a plasma to passivate the tungsten nitride layer prior to formation of the polysilicon layer on the tungsten nitride layer.

77. (New) The method in claim 76, wherein exposing the tungsten nitride layer to a plasma causes a reduction in an ability of the tungsten nitride layer to associate with oxygen.

laye

78. (New) The method of claim 76 wherein exposing the tungsten nitride layer to a plasma comprises exposing the tungsten nitride layer to a plasma selected from a group consisting of an N₂/H₂ plasma, an N₂ plasma, an H₂ plasma, an NH₃ plasma, and mixtures thereof.

79. (New) The method of claim 78 wherein exposing the tungsten nitride layer to a plasma containing N_2 and H_2 comprises exposing the tungsten nitride layer to an N_2/H_2 plasma under parameters including:

a temperature ranging from about 150 to about 600 degrees

Celsius;

an H₂ gas flow of about 50 to about 2000 sccm; an N₂ gas flow of about 5 to about 1000 sccm; an Ar gas flow of about 200 to about 2000 sccm; an RF power ranging from about 50 to about 1000W;

a pressure ranging from about 1 millitorr to about 10 torr; and

a process time ranging from about 10 seconds to about 240

seconds.

80. (New) The method in claim 78 wherein exposing the tungsten nitride layer to a plasma containing nitrogen comprises exposing the layer to an NH₃ plasma under parameters including:

a temperature ranging from about 150 to about 600 degrees

Celsius;

an NH₃ gas flow of about 5\to about 1000 sccm;

an Ar gas flow of about 200 to about 2000 sccm;

an RF power ranging from about \(\)0 to about 1000W;

a pressure ranging from about 1 mill torr to about 10 torr; and

a process time no greater than about 50% seconds.

81. (New) A method of passivating a conductive layer, comprising:

providing a first conductive plug;

providing a first conductive layer on the plug;

directly exposing the first conductive layer to a plasma to passivate the

first conductive layer; and

after exposing the first conductive layer to a plasma to passivate the first conductive layer, forming a second conductive layer on the first conductive layer.

82. (New) The method of claim 81 wherein the plug comprises at least one of polysilicon, tungsten, copper, and aluminum.

83. (New) The method of claim 81 wherein the first conductive layer comprises tungsten nitride.

cont.

Suppose

84. (New) The method of claim 81 wherein the second conductive layer

comprises copper.

85. (New) The method of claim 81 wherein exposing the first conductive layer to a plasma to passivate the first conductive layer reduces an ability of the first conductive layer to associate with oxygen.

86. (New) The method of claim 81 wherein exposing the first conductive layer to a plasma comprises exposing the tungsten nitride layer to a plasma selected from a group consisting of an N₂/H₂ plasma, an N₂ plasma, an H₂ plasma, an NH₃ plasma, and mixtures thereof.

87. (New) The method of claim 86 wherein exposing the tungsten nitride layer to a plasma containing N_2 and H_2 comprises exposing the tungsten nitride layer to an N_2/H_2 plasma under parameters including:

a temperature ranging from about 150 to about 600 degrees

Celsius;

an H₂ gas flow of about 50 to about 2000 sccm;

an N₂ gas flow of about 5 to about 1000 sccm;

an Ar gas flow of about 200 to about 2000 sccm;

an RF power ranging from about 50 to about 1000W;

a pressure ranging from about 1 millitorr to about 10 torr; and

a process time ranging from about 10 seconds to about 240

seconds.

88. (New) The method in claim 86 wherein exposing the tungsten nitride layer to a plasma containing nitrogen comprises exposing the layer to an NH₃ plasma under parameters including: